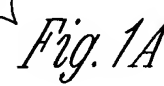
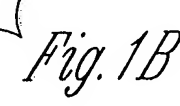
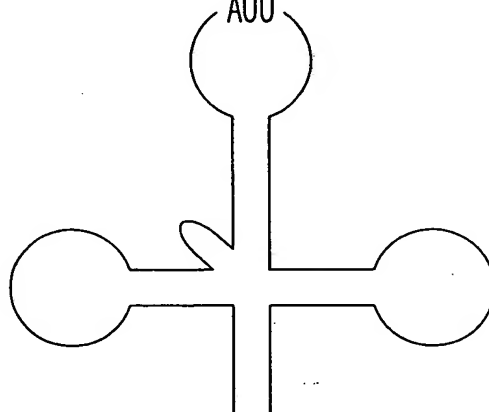


[illegible][illegible]

MUTANT mRNA
WITH NONSENSE
OCHRE MUTATION

mRNA UAA
AUU



OCHRE SUPPRESSOR
TYROSINE tRNA

T
Y
R

TRANSLATION

NORMAL PROTEIN

Fig. 1C

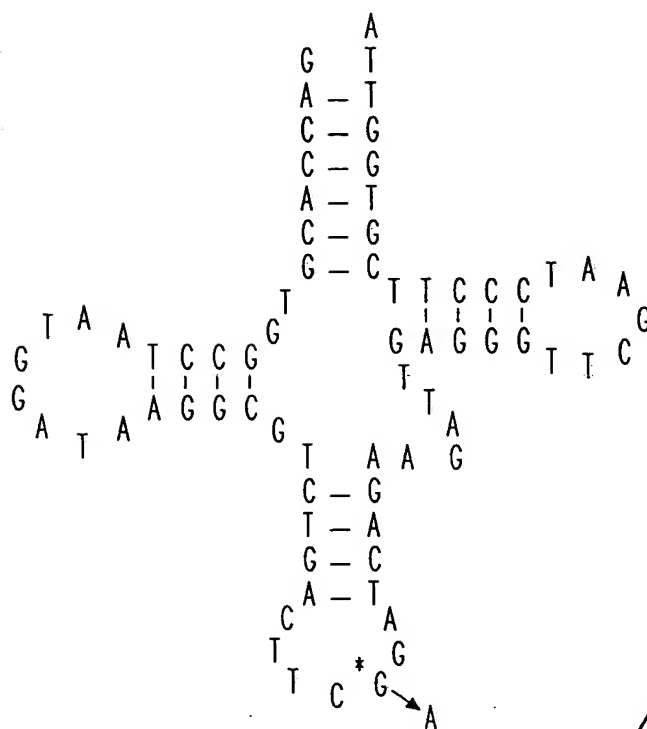


Fig. 2A

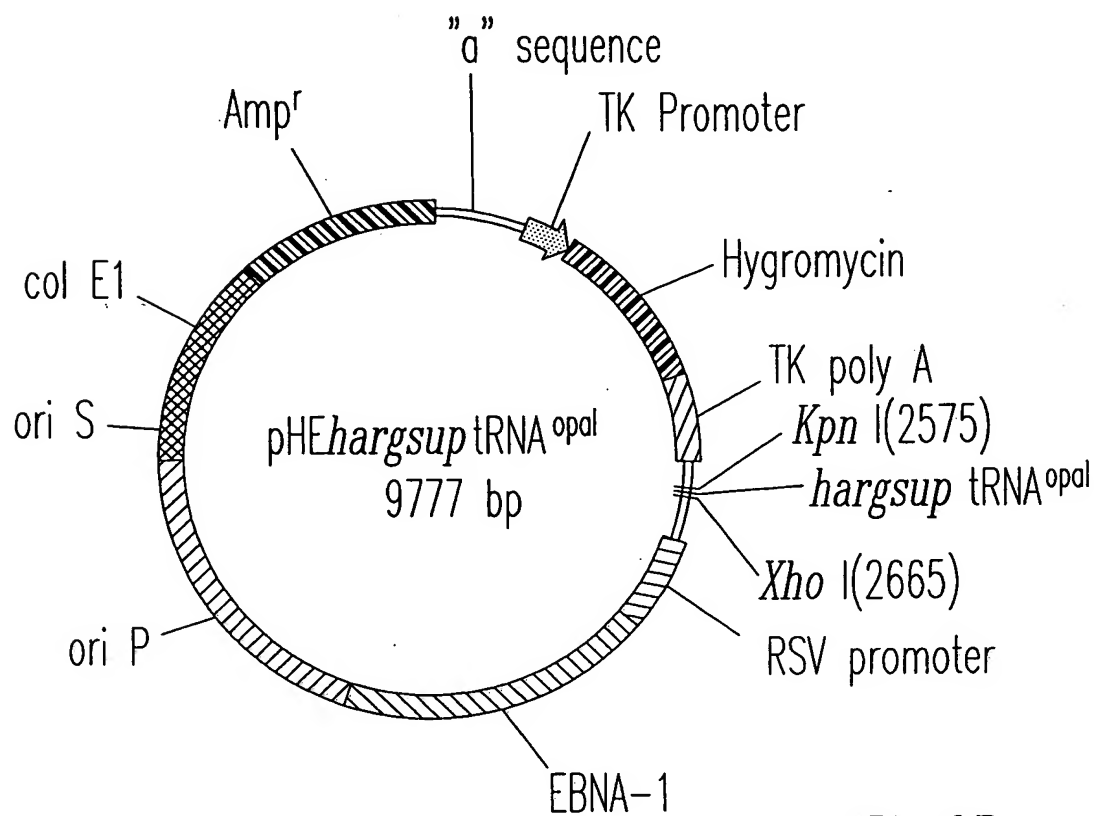


Fig. 2B

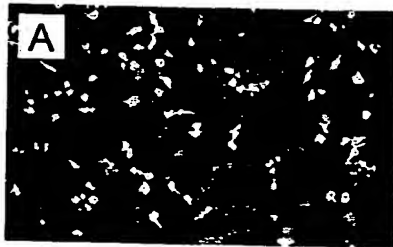


Fig. 3A

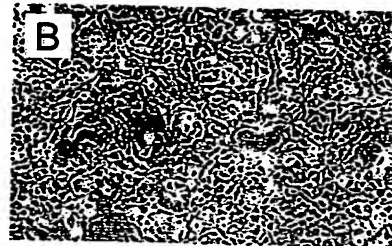


Fig. 3B

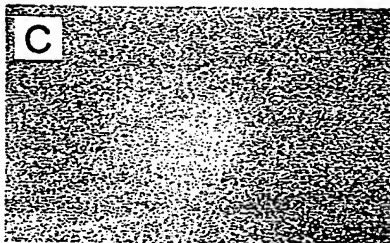


Fig. 3C

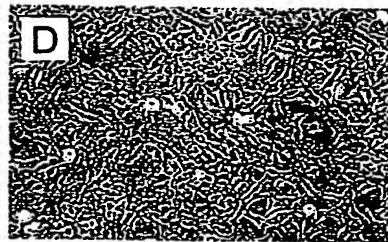


Fig. 3D

A.

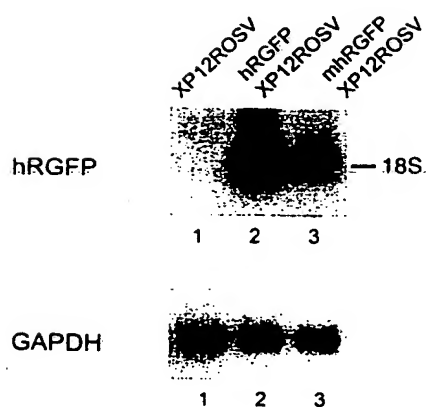


Fig. 4A

B.

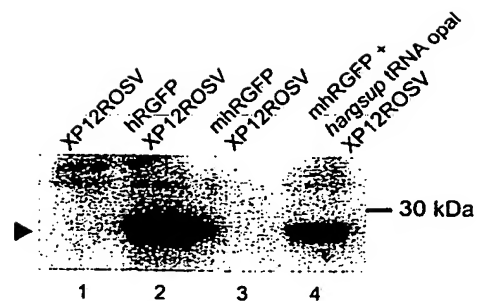
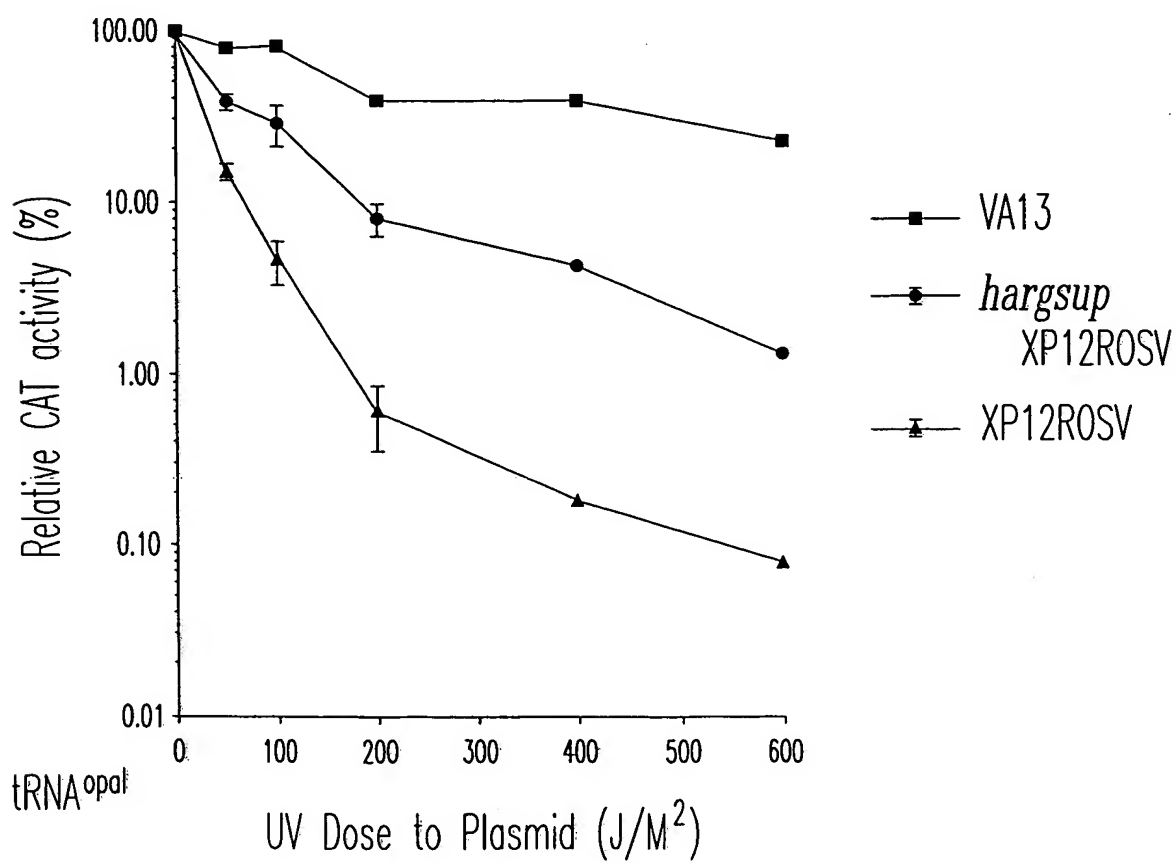
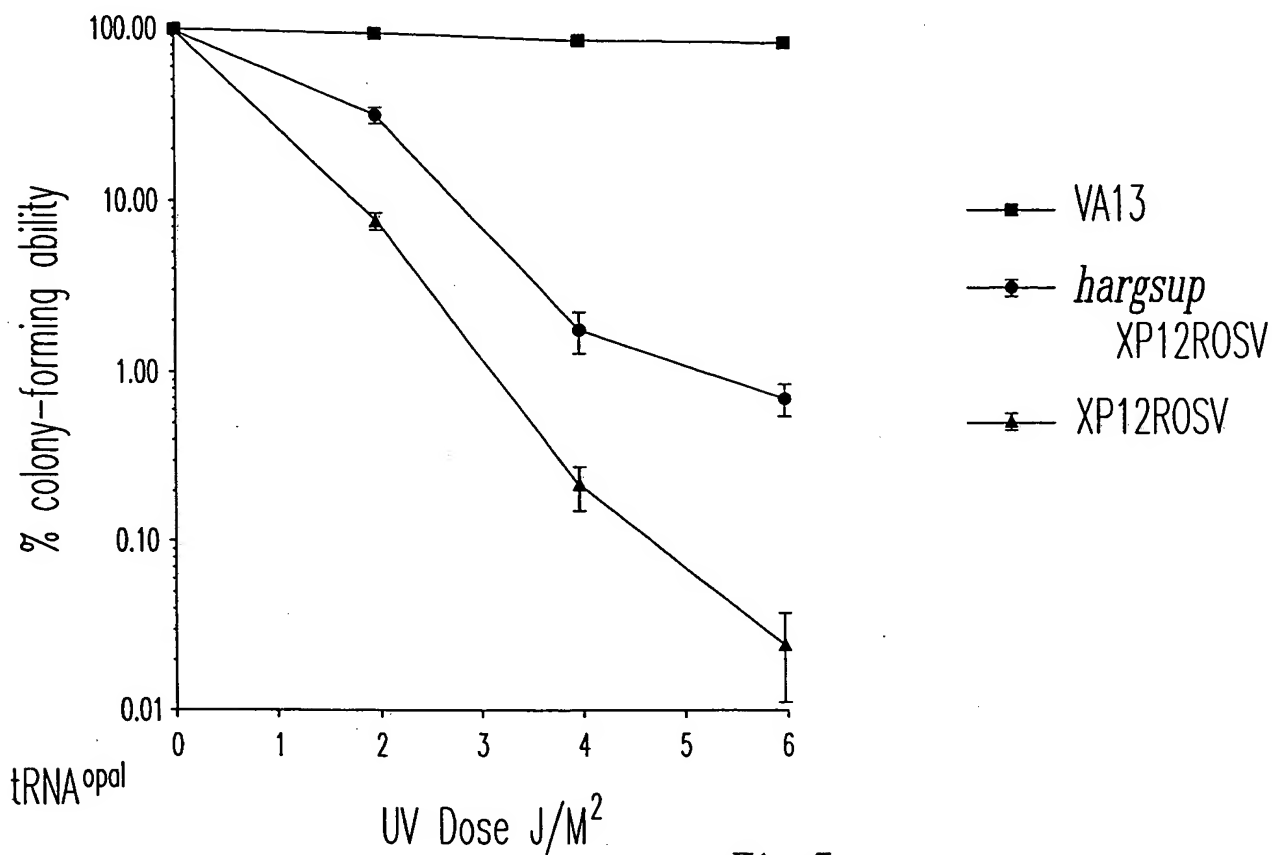


Fig. 4B

XP12ROSV



A

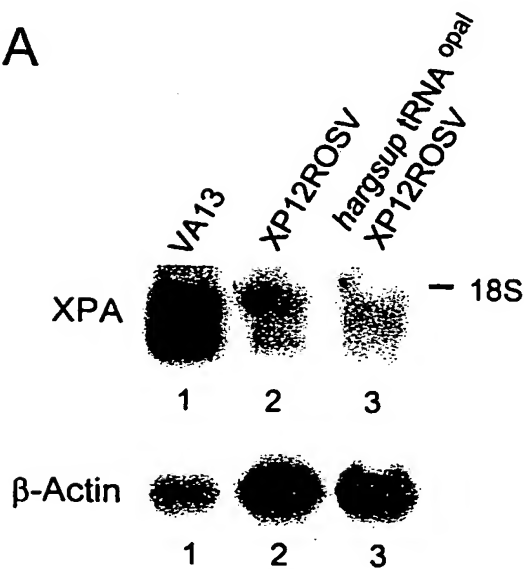


Fig. 7A

B

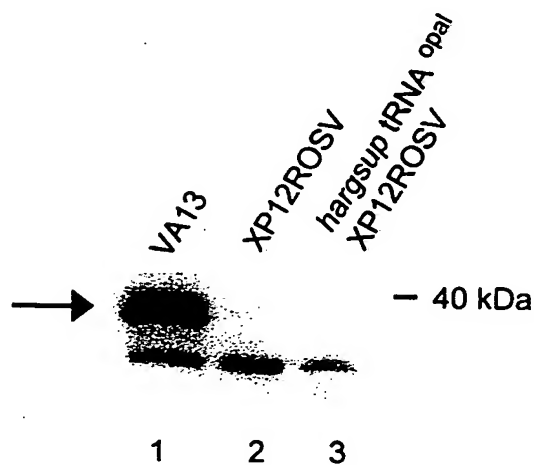


Fig. 7B



Fig. 8A

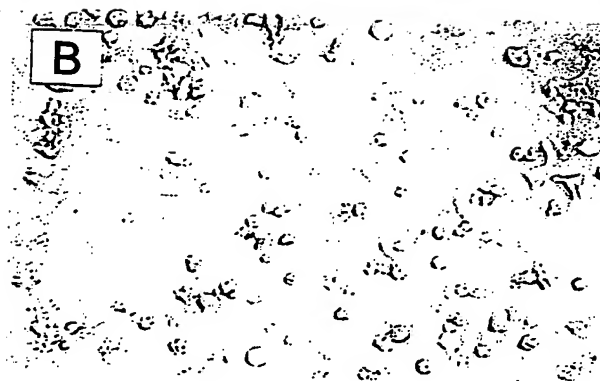


Fig. 8B

Human Opal/Amber Suppressor Ser tRNA (del CCA at the 3' end)

pHE 850

Human opal suppressor serine tRNA (using oligos RgP 24/25)

5' gcgcgtaccagtaaaaaagcagcccgtagtcggcaggattcgaaacctgcgggggagaccccaatggaattgaagtccatcgcccttaaccactcggccacgactaccagctgcgcg

3' cgcgcgaatggtcattttttttcgtgcggcatcagccggtcctaagcttggacgcgccctctgggggttacctaacttcaggtagcgggtgctgatgctgcacccgcgcg

kon I kon II
Pvu II

Human amber suppressor serine tRNA (using oligos RgP 18/4)

5' gcgcctccagagtagtgcgcaggattcgaaacctggcggggagaccccaatgattttagactccatcgcccttaaccactcggccacgactacggtaccgcgcgc
3' cgcggagctctcattttttttcgtgggcatacagccgtccctaagcttggacgcgccctctgggggttacctaatactcaggtagcggaattagtgagccgtgctgatgccatggcgcg
Xho I Kpn I

Human ochre suppressor serine tRNA (using oligos RgP 73/74)

[illegible]

Ochre Serine
Amber Serine
Opal Serine

Human Opal/Amber Suppressor Ser tRNA (del CCA at the 3' end)

Human opal suppressor serine tRNA (using oligos RgP24/25)

Human amber suppressor serine tRNA (using oligos 18/4)

THE UNIVERSITY OF CHICAGO

Opal Serine

Fig. 10

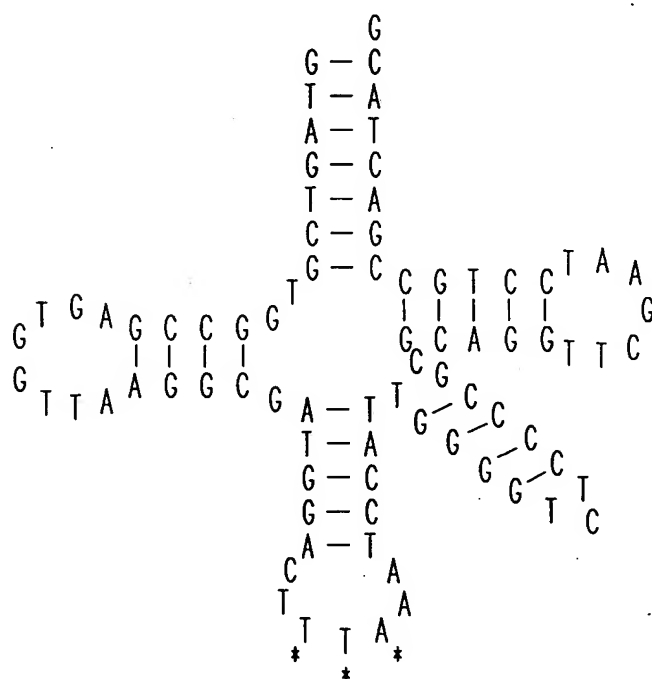


Fig. 11

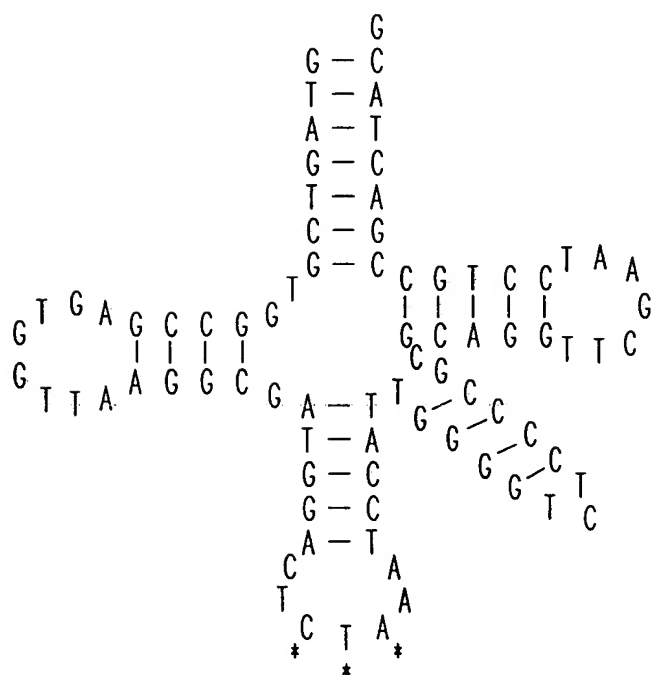


Fig. 12

G T A A T C C G G T
 G A T A A G C G T
 A — T
 C — G
 C — G
 A — T
 C — G
 G — C
 T T C C C T A A
 G T A G G G T C
 T — A
 C — G
 T — A
 G — C
 A — T
 C A G
 T C A
 * * *

Fig. 14